

Title (en)

SINGLE-MODALITY-BASED VISUAL DISTINGUISHING OF MEDICAL INTERVENTION DEVICE FROM TISSUE

Title (de)

AUF EINZELMODALITÄT BASIERENDE VISUELLE UNTERSCHIEDUNG EINER MEDIZINISCHEN INTERVENTIONSVORRICHTUNG VON GEWEBE

Title (fr)

DISTINCTION VISUELLE BASÉE SUR UNE MODALITÉ UNIQUE DE DISPOSITIF D'INTERVENTION MÉDICAL ET DE TISSU

Publication

EP 3229698 B1 20230705 (EN)

Application

EP 15808815 A 20151201

Priority

- US 201462089470 P 20141209
- US 201562254260 P 20151112
- IB 2015059231 W 20151201

Abstract (en)

[origin: WO2016092415A1] Depiction, within a single imaging modality, of an intervention device and body tissue surrounding the device, is improved by interrogating a subject that includes the intervention device and the tissue. An image is created using, for a parameter, a value, of the parameter (160), better suited to one or the other of a device region depicting the intervention device and a tissue region depicting the tissue. The value is used to yield respectively either a first image (152) or a second image (154). Respective presets may correspondingly have different values for the parameter. From jointly the first image and the second image which are both of the single modality, a combination is formed that is an image of the intervention device depicted as surrounded by the tissue. The combinations may be formed dynamically and ongoingly. An apparatus for the improved depiction may be configured for the use of the parameter in a stage prior to image processing conducted on a scan-converted image (146) if such image processing is employed.

IPC 8 full level

A61B 8/08 (2006.01); **A61B 8/00** (2006.01)

CPC (source: CN EP US)

A61B 8/0841 (2013.01 - CN EP US); **A61B 8/0883** (2013.01 - CN); **A61B 8/12** (2013.01 - CN); **A61B 8/463** (2013.01 - CN EP US); **A61B 8/467** (2013.01 - CN); **A61B 8/5246** (2013.01 - CN EP US); **A61B 8/54** (2013.01 - CN EP US); **G06T 7/0012** (2013.01 - US); **G06T 7/11** (2016.12 - US); **H04N 5/265** (2013.01 - US); **A61B 8/0883** (2013.01 - EP US); **A61B 8/12** (2013.01 - EP US); **A61B 8/467** (2013.01 - EP US); **G01S 7/52074** (2013.01 - EP US); **G01S 15/8995** (2013.01 - EP US); **G06T 2207/10132** (2013.01 - US); **G06T 2207/30024** (2013.01 - US)

Citation (examination)

- WO 2014002963 A1 20140103 - TOSHIBA KK [JP], et al & US 2015094569 A1 20150402 - OHUCHI HIROYUKI [JP], et al
- JP 2007301122 A 20071122 - ALOKA CO LTD

Designated contracting state (EPC)

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